

Title (en)
CHANGING DEVICE

Title (de)
WECHSELEINRICHTUNG

Title (fr)
SUPPORT D'ELEMENTS INTERCHANGEABLES

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Application
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Abstract (en)
[origin: WO2007031218A1] The present invention relates to a changing device for replaceably holding a sensor, sensing element or tool on a machine or a machine part or a rotating pivoting device on a machine or a machine part, preferably a coordinate measuring device. The changing device has a holding part with a first bearing and a corresponding element (22) with a counter bearing which corresponds to the first bearing (23). A releasable clamping device (25), for example a magnetic clamping device, is provided, by means of which a clamping force is produced between the first and the second bearings (26) when a corresponding element (22) is held in the holding part. A locking device with a first closure element (29) is provided on the holding part and a corresponding element, for example in the form of a slide (30), which corresponds to the closure element (29) of the holding part is provided on the corresponding element (22). By means of the locking device, the corresponding element can be mechanically coupled to the holding part in the state in which it is held on the holding part. The closure element (29) has a joint (31), and a securing element (33) in the form of a cable which is prestressed by a compression spring (35) is provided, by means of which a separation of the separating surface (31) is limited to a predetermined distance. The closure element with joint ensures that even in the event of a collision excessively large forces are not exerted on the components by the closure element (29) being lifted out of its seat at the joint (31). In the event of a collision the securing element also ensures that the corresponding element (22) remains connected to the holding part (21) and a component which is supported on the corresponding element does not drop off.

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